PATENT COOPERATION TREA

From the INTERNATIONAL SEARCHING AUTHORI

70

NOTIFICATION OF TRANSMITTALLOF THE INTERNATIONAL SEARCHIREPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

Date of mailing (day/month/year)

05/09/2005

(PCT Rule 44.1)

See paragraphs 1 and 4 below

Applicant's or agent's file reference

HAMILTON, BROOK, SMITH

Attn. Carroll, Alice O.

Concord, MA 01742-9133 UNITED STATES OF AMERICA

& REYNOLDS, P.C.

530 Virginia Road P.O. Box 9133

3194.1038002

To:

International application No.

PCT/US2005/003287

Applicant

FOR FURTHER ACTION

International filing date (day/month/year)

03/02/2005

MYKROLIS CORPORATION

The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet.

International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

Fax: (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Authorized officer

Iveta Bujanska

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the International search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims,description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the international Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
3194.1038002	ACTION as	well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year,	(Earliest) Priority Date (day/month/year)
PCT/US2005/003287	03/02/2005	05/02/2004
Applicant		
MYKROLIS CORPORATION		
This International Search Report has been according to Article 18. A copy is being tran	prepared by this International Searching Assmitted to the International Bureau.	Authority and is transmitted to the applicant
This International Search Report consists o	of a total of sheets.	
X It is also accompanied by a	copy of each prior art document cited in t	his report.
language in which it was filed, unles	ss otherwise indicated under this item.	pasis of the international application in the
this Authority (Rule	23.1(b)).	islation of the international application fumished to
b. With regard to any nucleot	ide and/or amino acid sequence disclos	ed in the international application, see Box No. I.
2. Certain claims were found	f unsearchable (See Box II),	
housest .		
3. X Unity of invention is lacking	ng (see Box III).	
4. With regard to the title,		
X the text is approved as subn	, , , ,	
the text has been establishe	d by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as subm	, , ,	
the text has been established may, within one month from the may in the man i	d, according to Rule 38.2(b), by this Author the date of mailing of this international sea	rity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be publ	ished with the abstract is Figure No. 6	
as suggested by the		
and the same of th	uthority, because the applicant failed to su	
(money)	uthority, because this figure better charact	erizes the invention.
b none of the figures is to be pu	adianed with the adstract.	

International application No. PCT/US2005/003287

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
O Claima Nea :
 Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.;
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

This invention concerns a method of purifying a transfer container comprising the step of purging the transfer container with a gas having a certain concentration. The problem to be solved is to reduce device contamination.

2. claims: 13-21

This invention is directed to a method and a system of transferring an object from a transfer container to a sealed chamber.

The problem to be solved is to improve the process control.

INTERNA JONAL SEARCH REPORT

International Application No PCT/US2005/003287

B01D46/00

B01D50/00

F24F3/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/124906 A1 (SUZUKI YOKO ET AL) 12 September 2002 (2002-09-12) paragraphs [0011], [0220]; figures 57A,57B	1-12
Χ	paragraphs [0243], [0245]; figure 68	13-21
X	EP 1 067 583 A (EBARA CORPORATION) 10 January 2001 (2001-01-10) paragraph [0042]; table 1	1-12
X	paragraphs [0020], [0043]; figures 5,9	13-21
X	US 5 644 855 A (MCDERMOTT ET AL) 8 July 1997 (1997-07-08) column 9, line 29 - column 10, line 5	1-12
Х	EP 1 182 694 A (TOKYO ELECTRON LIMITED) 27 February 2002 (2002-02-27) paragraphs [0041] - [0063]; figures 1,2	13-21
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex,
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
2 August 2005	0 5, 09. 05
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Angermeier, D

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INTERNA , ONAL SEARCH REPORT

International Application No
PCT/US2005/003287

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 5 169 272 A (BONORA ET AL) 8 December 1992 (1992-12-08) column 1, line 59 - column 2, line 28	1-12		
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The second secon		- The second sec	er en	
		dimension of		
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INTERNA HONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2005/003287

		·		1017002	703/003267
Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 2002124906 A	1 12-09-2002	JP EP WO TW US	2002261159 1343202 0247152 533174 2004187451	2 A1 2 A1 4 B	13-09-2002 10-09-2003 13-06-2002 21-05-2003 30-09-2004
EP 1067583 A	10-01-2001	JP EP TW US US	2001077188 1067583 550220 2002129707 6364922	A2 B A1	23-03-2001 10-01-2001 01-09-2003 19-09-2002 02-04-2002
US 5644855 A	08-07-1997	NONE	A AGE BANK BOAY TOTAL SOUR STAND SHAPE BANK I	and her little bid bid med non logg w	on any one too her too too you me ere boo may
EP 1182694 A	27-02-2002	JP JP EP TW		A B2 A A2 B	11-08-2004 15-03-2002 27-04-2005 07-06-2002 27-02-2002 01-09-2002 25-04-2002
US 5169272 A	08-12-1992	DE DE DE JP JP WO US US	69115292 0556193 3576162 6501815 9207759	T2 A1 B2 T A1 A	18-01-1996 27-06-1996 25-08-1993 13-10-2004 24-02-1994 14-05-1992 20-08-1996 06-12-1994

. ATENT COOPERATION TRE . Y

INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2005/003287 03.02.2005 05.02.2004 International Patent Classification (IPC) or both national classification and IPC H01L21/00, H01L21/68, B01D46/00, B01D50/00, F24F3/16 Applicant MYKROLIS CORPORATION 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II Priority ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of Invention Box No. V Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Angermeier, D

Telephone No. +49 89 2399-2283



International application No. PCT/US2005/003287

	Box N	lo. I Basis of the opinion
1.	With r	egard to the language , this opinion has been established on the basis of the international application in aguage in which it was filed, unless otherwise indicated under this item.
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	With reneces	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	of filling/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
1.	Additio	nal comments:

International application No. PCT/US2005/003287

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Th	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,						
\boxtimes	claims Nos. 13-19						
bed	cause:						
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):						
Ø	the description, claims or drawings (unclear that no meaningful opinion of	(indicate particular elements below) or said claims Nos. 13-19 are so could be formed (specify):					
	see separate sheet						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
	no international search report has be	een established for the whole application or for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the written form	has not been furnished					
	,	does not comply with the standard					
	the computer readable form	has not been furnished					
		does not comply with the standard					
	the tables related to the nucleotide a not comply with the technical require	nd/or amino acid sequence listing, if in computer readable form only, do ments provided for in Annex C-bis of the Administrative Instructions.					
\boxtimes	See separate sheet for further details	3 · · · · · · · · · · · · · · · · · · ·					

International application No. PCT/US2005/003287

	Вох	No. IV	Lack of unity of	inventio	n				***************************************	
1.	\boxtimes	☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:								
		\boxtimes	paid additional fees	i.						
			paid additional fees	under p	rotest.					
			not paid additional t	ees.						
2.		This Au	uthority found that th	e require nal fees.	ement of u	nity of inventio	n is not cor	mplied with a	and chose no	t to invite
3.	This	Author	ity considers that the	e require	ment of un	ity of inventio	n in accorda	ance with Ru	ıle 13.1, 13.2	and 13.3 is
		omplied	d with							
	⊠r	ot com	plied with for the folk	owing rea	asons:					
		see se	parate sheet							
4.	Con	sequen	tly, this report has be	en estal	blished in i	respect of the	following pa	arts of the in	ternational ap	oplication:
⊠ all parts.										
		ne parts	relating to claims N	os.						
		•								
mpart and		No. V istrial a	Reasoned staten	nent und ns and e	ler Rule 4: explanatio	3 <i>bis</i> .1(a)(i) wi ons supportin	th regard t	o novelty, i tement	nventive ste	p or
1.	State	ement								
	Nove	elty (N)		Yes: No:	Claims Claims	1, 20	e de la companya de l			
	Inve	ntive ste	ep (IS)	Yes: No:	Claims Claims	1-12, 20, 2	21			
	Indu	strial ap	oplicability (IA)	Yes: No:	Claims Claims	1-12, 20, 2	21			

Citations and explanations see separate sheet

International application No. PCT/US2005/003287

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet